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Search

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- Relevancy (descending)
- Title (ascending)
- Open Date (descending)
- Close Date (ascending)
- Release Date (descending)

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Displaying 81 - 90 of 878 results

1. 9.03.01.63-R : Instrument to Detect Aerosolized-Droplet Dose Delivery of Vaccines

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

Delivery of aerosolized drugs through the pulmonary system has received much attention in recent years for addressing a variety of health issues – in particular the delivery of vaccines. Higher costs and increased chemical toxicity of drugs under consideration are requiring more stringent dose delivery criteria, and thus has affected inhaler design and development. Little quantitative inform ...

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2. 9.03.02.68-R : Production of NIST/UCSF Breast Phantom for Magnetic Resonance Imaging (MRI)

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

NIST, in conjunction with University of California San Francisco (UCSF), has designed a breast phantom for quantitative magnetic resonance imaging (MRI), specific to American College of Radiology Imaging Network (ACRIN) trial 6698. A phantom is an inanimate structure used to calibrate and test MRI scanners, coils, and their operating protocols. The initial design has received interest from researc ...

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3. 9.04: Manufacturing

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

DOC SBIR 2014-NIST-SBIR-01 Compact, Rapid Electro-Optic Laser Scanner for Absolute 3D Imaging Computer Aided Standards Development (CASD) – A Software Tool to Automate Standards Development Process Erbium-Based DPSS Lasers for Remote Sensing Precision Spe ...

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4. 9.04.01.68-R : Compact, Rapid Electro-Optic Laser Scanner for Absolute 3D Imaging

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

Real time, three-dimensional (3D) imaging is needed by industry for both machine vision and monitoring of manufacturing processes. Today’s 3D imaging equipment have significant technical limitations: poor image resolution, low refresh rate, as well as a lack of rigorous, calibrated distance measurements, which render the equipment inadequate for high-quality measurements in today’s cha ...

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5. 9.04.02.73-R : Computer Aided Standards Development (CASD) – A Software Tool to Automate Standards Development Process

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

The design and development of standards is a long and tedious process. This process is often hampered by requirements to keep complex terminology consistent and keeping its associated information content current. The implementation and adoption of standards is slowed by the gap between the technical requirements in a standard and the technology required to implement those requirements. This SBIR s ...

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6. 9.04.03.68-R : Erbium-Based DPSS Lasers for Remote Sensing

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

The primary objective is to develop a narrow-band, tunable, diode-pumped solid-state (DPSS) pulsed laser system operating in the eye-safe infrared region around 1.6 micrometers in wavelength. Such laser systems are in demand for remote sensing of fugitive emissions, which can cost millions of dollars to industry, as well as for sensing and mitigation of pollutants for regulatory requirements and r ...

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7. 9.04.04.63-R : Precision Specimen Control for Transmission Scanning Electron Microscopy

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

The primary objective is to significantly extend the capabilities of the scanning electron microscope (SEM), a tool considered invaluable for characterizing materials and products in numerous forms of manufacturing. Examples range from extremely fine-scale structures found in nanoparticle production and semiconductor processing to large-scale structures used for transportation and infrastructural ...

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8. 9.04.05.73-R : Predictive Modeling Tools for Metal-Based Additive Manufacturing

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

The primary objective is to develop tools that rely on a suite of physics-based models to support accurate predictive analyses of metal-based additive manufacturing processes and products. Physics-based models must be developed in such a way to ensure reusability in a predictive environment, irrespective of product geometry. The tool will allow for accurate and reliable microstructure predictions ...

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9. 9.04.06.63-R : Technology for Separation of Carbon Nanotubes

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

As an advanced material, carbon nanotubes (CNTs) hold great promise for a number of technological applications of strategic importance, including future digital electronics beyond current CMOS technology. A fundamental problem in CNT applications is the lack of purity of CNTs with well-defined electronic and optical properties. A recent NIST advancement in CNT separation has demonstrated that aque ...

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10. 9.04.07.63-R : Ultra-sensitive and Wide Dynamic Range, Cavity Ring-down Spectroscopy System for Detection of Ozone

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

The Standard Reference Photometer for Ozone (SRP) has met the need for an ozone standard for National Metrology Institutes (NMI) and the Environmental Protection Agency (EPA) since 1980. The instrument is based on UV optical spectroscopy and 1980’s electronics. The inherent problems with this technology are long term stability, sensitivity, and noise. As we go forward, there is an unmet need ...

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- First
- Previous
- …
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- …
- Next
- Last

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